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(54) MEASURING DEVICE USING LASER

(57) Abstract:

PURPOSE: To provide the measuring device using laser, which is excellent in safety, less in electric power consumption, and can make its life longer without lowering measurement efficiency.

CONSTITUTION: Desired measurement is performed as follows: a laser beam radiated from a semiconductor laser 1 is radiated on a measured object 6, and its reflected beam from the measured object is detected by a beam detector 8. A laser drive circuit 2 is equipped with a first current drive circuit 11 supplying the semiconductor laser with drive current I_1 , a second current drive circuit 12 applying drive current ΔT to the

output terminal of the first current drive circuit 11, a first auto power controller (APC) 13, a first switch 14 provided for the APC, a second switch 15 provided for the output terminal of the second current drive circuit 12, and with a comparator 16 making switch-on or switch-off of these first and second switches 14 and 15.

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